

CLAIMS

1. A security screen door for vehicles, said screen door comprising:
 - a frame forming an opening;
 - at least one sliding section within said frame;
 - 5 a quick action lever on an inside of said security screen door for locking and unlocking said security screen door via a first lock; and
 - said sliding section comprising a second lock for securing said sliding section in a closed position;

wherein said second lock is unlocked from an outside using a key to

10 allow said sliding section to be moved from a closed position to an open position to allow access from the outside to said quick action lever.

15

2. The security screen door of claim 1, wherein said first lock comprises a triple lock.

20

3. The security screen door of claim 1, wherein said second lock is one of the following: a free rotation single cylinder lock, a free rotation double cylinder lock, a clutched cam cylinder lock.

4. The security screen door of claim 1, wherein said quick action lever is pivotally mounted to a frame member of said door, said quick action lever comprising a drive arm for locking and unlocking said first lock.

25

5. The security screen door of claim 4, wherein said first lock comprises a first drive recess coupled to an elongated primary engaging member,

said drive arm moving against lower and upper angled exit shoulders of said drive recess to respectively engage said primary member with, and disengage said primary member from, catch plates mounted on said vehicle.

5

6. The security screen door of claim 1, wherein said quick action lever further comprises at least one stop to limit movement of said lever.

10 7. The security screen door of claim 1, wherein said sliding section comprises a locking pin, said locking pin engaging a slot in said quick action lever when said quick action lever is in a locked position.

15 8. The security screen door of claim 7, wherein said second lock comprises an elongated secondary engaging member which engages with an aperture in a frame member of said door to lock said sliding section.

9. The security screen door of claim 1, further comprising woven wire intruder resistant mesh covering at least part of said opening formed by said frame.

20

10. The security screen door of claim 1, wherein each said sliding section is a sash screen.

25 11. The security screen door of claim 10, wherein at least one of said sash screens is slidable within a pair of slider frame members.

12. The security screen door of claim 10, wherein each said sliding section comprises:

5 a plurality of frame members, each frame member having a channel section and a clamping portion spaced from said channel section;

woven wire intruder resistant mesh covering an opening enclosed by said frame members and positioned on said clamping portions; and

10 a plurality of clamping members co-acting with respective fastening means to thereby clamp said mesh between said clamping portions and said clamping members with a leveraged clamping action.

13. The security screen door of claim 12, wherein said clamping portions have a serrated profile on a face adjacent said clamping members.

15 14. The security screen door of claim 12, wherein each clamping member comprises a serrated profile on a face adjacent said clamping portion.

15. The security screen door of claim 12, further comprising a resilient member inserted between said clamping member and said clamping portion.

20

16. The security screen door of claim 1, wherein each said sliding section comprises a substantially Z-shaped section, said substantially Z-shaped section of each sliding section interlocking when said sliding sections are 25 in the closed position.

17. The security screen door of claim 11, wherein each said slider frame member is fastened to a midrail of said frame, each said midrail comprising:

5 a clamping portion;

a clamping member co-acting with respective fastening means to thereby clamp woven wire intruder resistant mesh between said clamping portion of said midrail and said clamping member with a leveraged clamping action.

10

18. The security screen door of claim 1, wherein said frame of said security screen door is formed from one or more extruded frame members.

15 19. The security screen door of claim 18, wherein each frame member of said security screen door comprises a channel section and a clamping portion spaced from said channel section.

20 20. The security screen door of claim 11, wherein woven wire intruder resistant mesh covers the openings enclosed by said frame and said midrails and a plurality of clamping members co-act with respective fastening means to thereby clamp said mesh between clamping portions of said frame and clamping members with a leveraged clamping action.

25 21. The security screen door of claim 1, wherein said quick action handle also locks and unlocks an outer door of said vehicle.

22. A door system for a vehicle comprising:

an outer door;

an inner, security screen door comprising a quick action lever on
5 an inside of said security screen door;

wherein said quick action lever locks and unlocks said security
screen door and said outer door.

23. A door system for a vehicle comprising:

10 an outer door comprising a handle on an inside of said outer door;

an inner, security screen door comprising a quick action lever on an
inside of said security screen door;

wherein said quick action lever locks and unlocks said security screen
door and said handle opens said outer door.

15

24. A method of providing security for a vehicle, said vehicle comprising an
outer door and an inner, security screen door, said method including the
steps of:

opening said outer door;

20 unlocking a sliding section of said security screen door using a key;
moving said sliding section from a closed position to an open
position to allow access from an outside to a quick action lever on an
inside of said security screen door;
unlocking said security screen door by moving said quick action
25 lever from a locked position to an unlocked position.

25. A method of opening an outer door and an inner, security screen door of a vehicle from an inside of said vehicle, said method including the steps of:

5 pushing a quick action lever on an inside of said security screen door from a locked position to an unlocked position to unlock said security screen door and said outer door; and
opening said outer door and said security screen door.

10 26. A method of opening an outer door and an inner, security screen door of a vehicle from an inside of said vehicle, said method including the steps of:

15 sliding a sliding section of said security screen door from a closed position to an open position to allow access to a lock on an inside of said outer door;

unlocking and opening said outer door;
pushing a quick action lever on an inside of said security screen door from a locked position to an unlocked position to unlock said security screen door; and

20 opening said security screen door.

27. The method of claim 26, further including the step of unlocking said sliding section of said security screen door prior to sliding said sliding section to the open position.